

ABSTRACT

A tool and method for production of a cast component from molten titanium alloy. The tool includes a casting mold, wherein at least one mold wall area of the casting mold, which comes into contact with the molten titanium alloy, is made of yttrium oxide, magnesium oxide and calcium oxide. The casting mold includes at least first and second layers, the first layer forming a mold wall area which comes into contact with the molten titanium alloy and the second layer forming a backfilling stabilization area for the mold wall area. Both the first layer and the second layer is formed of yttrium oxide, magnesium oxide and calcium oxide. In addition, the second layer, which backfills the first layer, has less yttrium oxide and is more coarsely grained than the first layer.